No. 8400017

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Alabama Agricultural Experiment Station
Dept. of Agronomy & Soils, Auburn University

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TALL FESCUE

'AU Triumph'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 29th day of March in the year of our Lord one thousand nine hundred and eighty-five.

Attest:

Kenneth A. Evans
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

John R Block
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

FORM APPROVED: OMB NO. 0581-0005

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1. NAME OF APPLICANT(S): Agronomy and Soils Department, Auburn University, Agricultural Exp. Station

2. TEMPORARY DESIGNATION: AF-5

3. VARIETY NAME: AU Triumph

4. ADDRESS *(Street and No. or R.F.D. No., City, State, and Zip Code)*: Auburn, AL 36849

5. PHONE *(Include area code)*: (205) 826-4100

FOR OFFICIAL USE ONLY

PVPO NUMBER: 8400017

6. GENUS AND SPECIES NAME: Festuca arundinacea

7. FAMILY NAME *(Botanical)*: Gramineae

FILING
DATE: 11-29-83
TIME: 2:30 ☐ A.M. ☒ P.M.

8. KIND NAME: Tall Fescue

9. DATE OF DETERMINATION: 1976

FEES RECEIVED
AMOUNT FOR FILING: $ 1,000
DATE: 11/29/83
AMOUNT FOR CERTIFICATE: $ 500.00
DATE: 2/4/85

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION *(Corporation, partnership, association, etc.)*: University

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

12. DATE OF INCORPORATION

13. NAME AND ADDRESS OF APPLICANT REPRESENATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Dr. J. F. Pedersen, Department Agronomy and Soils, Auburn University, AL 36849

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

a. ☒ Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*

b. ☒ Exhibit B, Novelty Statement

c. ☒ Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*

d. ☒ Exhibit D, Additional Description of the Variety

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act.)* ☐ Yes *(If "Yes," answer items 16 and 17 below)* ☒ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☒ Yes ☐ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? ☒ Foundation ☐ Registered ☒ Certified

18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES? ☐ Yes *(If "Yes," give names of countries and dates)* ☒ No

19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES? ☐ Yes *(If "Yes," give names of countries and dates)* ☒ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

OK 8/4/83

SIGNATURE OF APPLICANT: Jeffrey F. Pedersen — DATE: Aug 1, 1983

SIGNATURE OF APPLICANT: S.P. Wilson — Stanley P. Wilson, Vice President for Agr, Home Ec, & Vet Med — DATE: 10/11/83

SIW

FORM LMGS-470 (9-81) (Edition of 1-78 is obsolete)

INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and $500 fee (*$250 filing fee and $250 examination fee*) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. *(See section 180.175 of the Regulations and Rules of Practice.)* Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

9 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.

14a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.

14b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

14d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.

15 If "Yes" is specified *(seed of this variety be sold by variety name only as a class of certified seed)* the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. *(See section 180.16 of the Regulations and Rules of Practice.)*

16 See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

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Tall Fescue
'AU Triumph'

14A. Exhibit A:

'AU Triumph' was developed by a combination of mass and recurrent selection. Spaced plants of 121 tall fescue introductions (3 replications, 10 plants each) were evaluated 3 years for vigor, winter growth, regrowth potential, and disease resistance at the Auburn University Plant Breeding Unit, Tallassee, Alabama. To facilitate further selection, 132 individuals were clonally propagated and replicated 4 times in an isolation nursery. After 2 years of further selection, 12 genotypes from this nursery were identified as superior for the above traits. Open pollinated seed was harvested from these genotypes and equal quantities of seed from each were bulked to form an experimental population designated AF-4. These were seeded in isolation and >1000 individuals were reselected for early growth. Bulked seed from the selected AF-4 progeny formed the experimental population AF- 5, or 'AU Triumph'.

No off types have been noted in 'AU Triumph'. All individuals fall within the population parameters described below.

Variable	Mean	Std. Dev.
Heading Date (Julian Day)	117	14
Height at heading (cm)	41	9
Width at heading (cm)	8.6	1.9
Growth Habit (1 = Erect 3 = lax)	1.2	0.4
Height at maturity (cm)	100	16
Internode length (cm)	17.2	3.7
Flag leaf length (cm)	14.2	4.1
Flag leaf width (mm)	6.9	1.8
Panicle shape (1=narrow-tapering) (2= ovate 3 = oblong)	2.0	0.8
Panicle type (1 = open 2 = intermediate) (3 = compact)	2.0	0.8
Panicle orientation (1 = erect 2 = nodding)	1.0	0.2
Panicle pubescense (1 - glabrous)	1.0	0.0
Panicle length at maturity (cm)	26.8	3.1

These data were collected on individual plants after (or during) their first season of growth at two locations (Tallassee and Prattville) in Alabama.

'AU Triumph' has remained stable through three generations. Observation of Breeder's, Foundation, and Certified seed production fields show no discernable differences between generations.

14B. Novelty Statement

'AU Triumph' is most similar to 'Fawn' and 'Goar' in having very early heading dates. 'AU Triumph' is shorter in stature than either 'Goar' or 'Fawn' in the first year of establishment. 'AU Triumph' has a wider average crown diameter than 'Goar' at maturity in its first year of establishment. 'AU Triumph' has a more open, ovate head than 'Goar' which has a narrow, compact head. 'AU Triumph's' head is slightly more ovate than 'Fawn' and has a shorter average panicle length than 'Fawn'. 'AU Triumph' is more erect at maturity than 'Fawn'.

The attached ANOVA Table and Duncan's tests support the above statements. Although similar results were obtained when locations were considered separately or combined for most traits, the Tallassee, AL location was flooded for a long period and the plants of all varieties showed considerable stress. Therefore, the data given in 14C which were drawn from these analyses are from only the Prattville, AL location since the individuals in that location were more representative of the varieties considered. Combined location analyses are also provided for your information.

FORM APPROVED: OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Tall & Meadow Fescues)

OBJECTIVE DESCRIPTION OF VARIETY

TALL & MEADOW FESCUES

(Festuca spp.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Agronomy & Soils Dept., Auburn Univ., Agric.	AF-5	AU Triumph

ADDRESS *(Street and No., or R.F.D. No., City, State, and Zip Code)*
Expt. Station
Auburn University, AL 36849

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PVPO NUMBER
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Place the appropriate number that describes the varietal character of this variety in the boxes below. Use leading zeroes when necessary (e.g., [0][8][9] or [0][9]). Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: _____. Describe location of test area, conditions and number of plants used _____.

1. SPECIES: (With comparison varieties for use below — use varieties within species of application variety)

[X] 1 = *F. arundinacea* (Tall) — 11 = Alta; 12 = Fawn; 13 = Goar; 14 = Kentucky-31; 15 = Festal; 16 = S.170; 17 = Rebel; 18 = Manade; 19 = Kenhy; 20 = Missouri 96

2 = *F. pratensis* (Meadow) — 21 = Ensign; 22 = Trader; 23 = Beaumont; 24 = Admira; 25 = Comtessa

2. CYTOLOGY:

[ ][ ] Chromosome Number

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

[0] Transition Zone [0] West [2] Other *(Specify)* Southeastern U.S.

4. MATURITY: (Date First Headed, panicle emergence) Location(s) of Trial(s) Prattville, AL

[1] Maturity Class:

1 = Very early (Goar, Fawn) 2 = Early (Alta, Fawn, S.170) 3 = Medium early (K31, Falcon)
4 = Medium late (Barundi, Rebel, Ensign, Kenhy) 5 = Late ( )

Date Headed April 25, 1983

[ ][ ]	Days earlier than	[ ][ ]	Comparison Variety (Maturity also the same as 13)
	Maturity same as	[1][2]	
[ ][ ]	Days later than	[ ][ ]	

5. PLANT HEIGHT (Average of 10 tallest culms):

[1][0][8][0] mm Height (at maturity to top of panicle)

[1][5][8]	mm Shorter than	[1][2]	(118 mm Shorter than 13)
	Mature Height same as	[ ][ ]	Comparison Variety
[ ][ ][ ]	mm Taller than	[ ][ ]	

[0][4][4][2] mm Height (at ear emergence)

[ ][ ][ ]	mm Shorter than	[ ][ ]	Comparison Variety (Height at ear emergence also the same as 13)
	Emergence height same as	[1][2]	
[ ][ ][ ]	mm Taller than	[ ][ ]	

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5. PLANT HEIGHT: (Continued)

[1][8][7] mm Internode length (spring)

[ ][ ] mm Shorter than . . . . . [ ][ ]

Internode same as . . . . . [1][2] } Comparison Variety

[ ][ ] mm Longer than . . . . . [ ][ ]

[ ][9][1] mm Width of plant (at ear emergence)

6. GROWTH HABIT (Mature):

[1] 1 = Erect, foliage stiff-upright (Kentucky 31) 2 = Semi-erect (Beaumont, Rebel)
3 = Lax (Aberystwyth S.53)

(AU Triumph = 1.2
12 = 1.6
Significantly different)

7. RHIZOMES (Pseudo):

[ ][ ][ ] mm Length [1] 1 = Absent 2 = Rare (Rebel) 3 = Common

8. LEAF BLADE:

[2] Color: 1 = Light Green (Roa) 2 = Medium Light Green (Beaumont, Kentucky 31)
3 = Medium Dark Green (Rebel) 4 = Dark Green ( )

12/12/84 BBW

[ ] Anthocyanin: 1 = Absent 2 = Present [ ] Hairs (Basal) 1 = Absent 2 = Present

[ ] Margins: 1 = Smooth 2 = Semi-rough 3 = Rough

[3] Width Class: 1 = Fine ( ) 2 = Medium Fine (Rebel, Monaco) 3 = Medium Coarse (K-31, Barundi)
4 = Coarse (Kenhy) 5 = Very Coarse (Hazel)

12/12/84 BBW

[1][7][0] mm Length (Flag Leaf)

[ ][ ] mm Shorter than . . . . . [ ][ ]

Blade length same as . . . . . [1][2] } Comparison Variety (Blade length same as 13)

[ ][ ] mm Longer than . . . . . [ ][ ]

[ ][7][5] mm Width

[ ][ ][ ] mm Narrower than . . . . . [ ][ ]

Blade width same as . . . . . [1][2] } Comparison Variety (Blade width same as 13)

[ ][ ][ ] mm Wider than . . . . . [ ][ ]

9. LEAF SHEATH:

[ ] Anthocyanin (seedling): 1 = Absent (Kentucky 31) 2 = Present (Kenhy, Forager)

[ ] Auricle Hairiness: 1 = Absent 2 = Present

10. PANICLE (Mature Plant):

[2] Shape: 1 = Narrow-tapering 2 = Ovate 3 = Oblong 4 = Other *(Specify)* _____

[2] Type: 1 = Open 2 = Intermediate 3 = Compact (appressed)

[1] Orientation: 1 = Erect 2 = Nodding

[1] Branch Pubescence: 1 = Glabrous 2 = Pubescent

[ ] Anther Color:

[ ] Glume Color (At 50% Flowering): } 1 = Yellowish Green 2 = Green 3 = Bluish Green
4 = Purplish 5 = Reddish 6 = Other *(Specify)* _____

(ATTN. Goar is narrow tapering - compact) (13)

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10. PANICLE: (Continued)

2 6 8	mm Length (from base of panicle branch to the tip)		
3 7	mm Shorter than	1 2	Comparison Variety
	Panicle length same as		
	mm Longer than		

11. PALEA:

HAIRS (On keels or margins): 1 = Absent 2 = Short (Missouri 96) 3 = Long ( )

12. LEMMA:

HAIRS: 1 = Absent (Kenhy) 2 = Several 3 = Many (Missouri 96)

	mm Lemma Length (Mature)		
	mm Shorter than		Comparison Variety
	Lemma length same as		
	mm Longer than		
	mm Lemma Width		
	mm Narrower than		Comparison Variety
	Lemma width same as		
	mm Wider than		

AWNS: 1 = Absent (Beaumont) 2 = Present (Falcon, Barundi)

	mm Awn Length		
	mm Shorter than		Comparison Variety
	Awn length same as		
	mm Longer than		

13. SEED (With Lemma & Palea):

2 3 6 4	mg per 1000 seed		
7 1 1	mg per 1000 seed less than	1 2	Comparison Variety
	Seed weight same as		
	mg per 1000 seed more than		

14. DISEASE, INSECT, AND NEMATODE REACTION (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

0	Melting-out *Drechslera poae* (*Helminthosporium vagans*)	0	Blind Seed *Gloeotinia temulenta*
0	Leaf Spot *D. siccans*	0	S. Patch *Sclerotinia homoeocarpa*
0	Net Blotch *D. dictyoides*	0	Stripe Smut *Ustilago striiformis*
0	Brown Patch *Rhizoctonia solani*	0	O. Patch *Ophiobolus gramminis*
0	C. Leaf Spot *Cercospora festucae*	0	T. Blight *Typhula incarnata*
0	Pink Snow Mold *Fusarium nivale*	0	Pythium Blight *Pythium spp.*
0	Silver Top *F. tricinctum, F. roseum*	0	Powdery Mildew *Erysiphe graminis*
0	Crown Rust *Puccinia coronata*	0	Nematode _____

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14. DISEASE, INSECT, AND NEMATODE REACTION: (Continued)

[0] Insect _____

[0] Other _____

[0] Other _____

15.

[ ] PHOTOPERIOD: 1 = Non-sensitive 2 = Sensitive

16.

[1] WINTER HARDINESS: 1 = Susceptible 2 = Resistant
(establishment year)

17. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate Degree of Resemblance by placing in the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety 2 = Same as
3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Leaf Width			Leaf Color		
Panicle Color			Panicle Shape		
Seed Size			Cold Injury		
Winter Color			Heat		
Shade Tolerance			Disease*		
Drought Tolerance					

* *Specify each disease evaluated.*

18. ADDITIONAL DESCRIPTION: (Use additional sheets as required)

Describe all characteristics that cannot be adequately described in the form above in Exhibit D. Comparative varieties should be used as may be appropriate, such as for disease. Append all comparative trial and evaluation data, including measured characters, environmental, and disease tests.

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Prattville — All Varieties Tested

Heading date

Anova

Source	df	MS	F
Rep	3	46	0.5
Variety	8	3216	34.5*
Error	347	93	

* Sign. at P = .05

Duncan's

Variety	Julian Days	
Kenhy	136	A*
Johnstone	134	AB
MO 96	133	AB
KY-31	130	B
Alta	124	C
Forager	121	C
AU Triumph	115	D
Fawn	114	D
Goar	113	D

* Means with common letters are not sign. diff. at P = .05

Both Locations — All Varieties Tested

Headind Date

Anova

Source	df	MS	F
Location	1	641	6.86*
Rep	3	144	1.54
Rep x Loc	2	220	2.35
Variety	8	5029	53.80*
Var x Loc	8	124	1.33
Error	551	93	

* = Sign at P = .05

Duncan's

Variety	Julian Days	
Kenhy	136	A*
Johnstone	135	A
Mo 96	134	A
KY-31	132	A
Alta	123	B
Forager	122	B
AU Triumph	117	C
Fawn	116	CD
Goar	113	D

* Means with common letters are not sign. diff. at P = .05

Prattville — AU Triumph vs Fawn vs Goar

Panicle Length

Anova

Source	df	MS	F
Rep	3	6.7	0.6
Variety	2	147.0	14.1
Error	117	10.4	

* = Sign. diff. at P = .05

Duncan's

Variety	Length (cm)	
Fawn	30.5	A*
Goar	28.2	B
AU Triumph	26.8	C

* Means with common letter are not sign. diff. at P = .05

Prattville — AU Triumph vs Fawn vs Goar

Panicle Shape

Anova

Source	df	MS	F
Rep	3	0.3	.72
Variety	2	13.7	30.67
Error	117	0.4	

* = Sign at P - .05

Duncan's

Variety	Shape †	
Fawn	2.5	A*
AU Triumph	2.0	B
Goar	1.3	C

* Means with common letter are not sign. diff. at P = .05

† 1 = narrow-tapering
2 = ovate
3 = oblong

Prattville — AU Triumph vs Fawn vs Goar

Panicle Type

Anova

Source	df	MS	F
Rep	3	1.5	3.0 *
Variety	2	8.3	17.0
Error	117	0.5	

* Sign at P = .05

Duncan's

Variety	Type †	
Goar	2.6	A*
AU Triumph	2.0	B
Fawn	1.8	B

* Means with common letter are not sign. diff. at P = .05

† 1 = open
2 = intermediate
4 = compact

Prattville — AU Triumph vs Gawn vs Goar

Panicle Orientation

Anova

Source	df	MS	F
Rep	3	0.02	0.2
Variety	2	0.56	5.5*
Error	118	0.10	

* Sign at P = .05

Variety	Orientation †	
Fawn	1.3	A*
Goar	1.1	B
AU Triumph	1.0	B

* Means with common letter are not sign. diff. at P = .05

† 1 = erect
2 = nodding

Prattville — AU Triumph vs Goar vs Fawn

Height at maturity

Anova

Source	DF	MS	F
Rep	3	479	5.5*
Variety	2	2680	30.6*
Error	118	88	

* = Sign. at P = .05

Duncan's

Variety	Height (cm)	
Fawn	124	A*
Goar	120	A
AU Triumph	108	B

* Means with common letter are not sign. diff at P = .05

Both Locations — AU Triumph vs Fawn vs Goar

Height at maturity

Anova

Source	df	MS	F
Location	1	36.102	302.7*
Rep	3	252	2.1
Rep x Loc	2	818	6.7
Variety	2	3476	29.2
Var x Loc	2	64	0.5
Error	193	119	

* = Sign. at P = .05

Duncan's

Variety	Height (cm)	
Fawn	110	A*
Goar	109	A
AU Triumph	100	B

* Means with common letter are not sign. diff. at P = .05

Prattville — AU Triumph vs Goar vs Fawn

Crown width at heading

Anova

Source	df	MS	F
Rep	3	23	7.0 *
Variety	2	34	10.1 *
Error	118	3	

* = Sign. at P = .05

Duncan's

Variety	Crown (cm)	
AU Triumph	9.0	A*
Fawn	8.8	A
Goar	7.3	B

* Means with common letters are not sign. diff. at P = .05

Both Locations — AU Triumph vs Goar vs Fawn

Crown width at heading

Anova

Source	df	MS	F
Location	1	15	4.2*
Rep	3	5	1.4
Rep x Loc	2	42	11.9
Var	2	47	13.2
Var x Loc	2	6	1.7
Error	193	4	

* Sign diff. at P = .05

Duncan's

Variety	Crown (cm)	
Fawn	8.7	A*
AU Triumph	8.6	A
Goar	7.2	B

* Means with common letters are not sign. diff. P = .05

14D. 'AU Triumph' has been shown to give much higher late winter - early spring forage yields than other cultivars in the Southeastern U.S.